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## RAPID FILM TRANSPORT AND SIMPLE OPERATION

The patented intermittent film drive system advances the film at intervals of less than 0.01 seconds, regardless of projection speed. This provides a maximum of “open time” for projection, resulting in a bright, flicker-free image.

A computer-controlled drive system for the film platter motors ensures constant film tension and reliable film transport. This system automatically senses how the film is wrapped on the film platters and changes the tension and feed controls accordingly. The programmable automatic stopping device stops the film 2 m before the end.

This computer-controlled system makes film loading both fast and simple. After placing the film on one of the two film platters and attaching the free end to an empty core on the other platter, the remaining film loading steps, loop forming and film tensioning are accomplished automatically. The film may be removed at any time, even in the middle of a roll by simply depressing the “film load” button.



## HIGH QUALITY VIDEO TRANSFER

While workprint provides critical evaluation of dailies, the LOCPRO 35 video transfer offers video copies at literally, no additional cost.

To save on expensive Telecine transfers, the LOCPRO 35 features a 1/3 “ CCD Color High Resolution Imager for film-to-video transfers. With just the flip of two knobs, the wall/screen projection can be switched to video. The video image is high quality and according to editing people, very well suited to their editing process.



# LOCPRO film projectors

## OPTIMIZED IMAGE QUALITY WITH FLICKER-FREE PROJECTION

Image brightness, frame steadiness as well as image sharpness are excellent, regardless of projection speed, and the LOCPRO 35's new film transport system delivers a flicker-free image in projection as well as video mode.

A 400 W HTI lamp provides a bright, crisp image at an average color temperature of 5400°K. Optimum wall projection is achieved at a distance of 14 ft (4,3 m) which translates into an image width of 7.5ft (2,30 m).

## HIGH-SPEED SHUTTLE

The LOCPRO 35's high speed shuttle mode facilitates quick location of specific film frames. Film direction can be switched from forward to reverse at 200 frames per second by simply turning the “film speed control” knob towards its end stop.

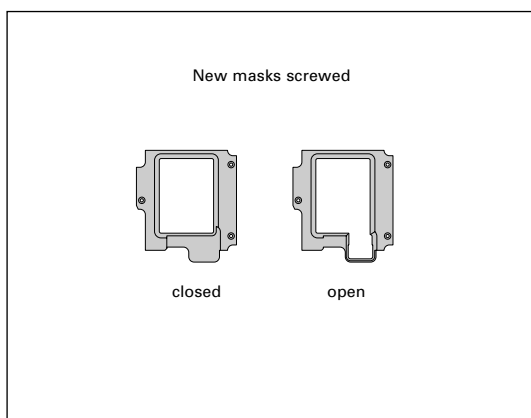
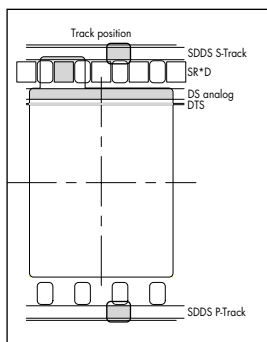
You can quickly and easily go into and out of the shuttle mode from any projection speed while in either forward or reverse operation.

After switching back from high speed-shuttle to image projection the correct frame bar adjustment is provided again by the constantly running electronic frame counter.

## NEW MASKS AND FILM GATES

The format masks are now available in 2 versions: open (SR\* Track open) and closed (SR\* Track closed). The old format masks can no longer be used. With the new film gate, frame line and vertical image position are now easily adjustable.

The projection of DTS, DS analog and SR\*D track depends on the format mask selected.



## AT A GLANCE

- Easy to operate
- Excellence image quality
- Short frame advance time
- Single frame operation
- High-speed shuttle mode
- "Auto stop" mode
- "Auto" recognition of winding direction
- Integrated infrared receiver
- HTI lamp, 400 W / 24 V for Locpro Advanced
- Xenon lamp, 300 W for Locpro Xenon
- Wall projection and projection via video camera
- Computer interface
- External image synchronization
- Easy to transport
- Anamorphic Upgrade Kit
- Upgrade Kit for 670m / 2200ft



— for all locations

## VIEWING SPECIAL EFFECTS SEQUENCES

Conventional viewing systems, film or video projectors, make viewing special effects sequences especially difficult. One either has to deal with a screen that is too small, an image whose quality is inferior or a projector lacking the mechanical ability to move a single frame forward or reverse.

The LOCPRO 35 provides freeze frame, single frame, a running speed of up to 60 fps and a shuttle mode of 200 fps in forward and reverse. All functions are easily performed via the palm shaped control knob or through a remote control. The image size at wall projection provides important details to judge compositions of live action shots with computer generated images.

## ACCESSORIES

- Infrared remote control
- Maintenance tool kit
- Service tool box
- Transport box
- Worklight

optional

- Anamorphic Upgrade Kit (with limited functionality at using honey comb condensor)
- Upgrade Kit 670 m / 2200ft
- Cover hood
- ASU (Audio Sync Unit)
- Timecode (LTC) cable
- Magnetic film player

## LOCPRO 35, LOCPRO XENON, LOCPRO 35 ADVANCED

The LOCPRO 35 is a lightweight, mobile 35 mm projector for on-location use or for quality control in labs and postproduction houses. The switchable mirror system allows for either wall or video projection through a 1/3" high resolution CCD-Color Imager. The user menu makes it possible to quickly switch over from 4 perforation to 3 perforation format. Interchangeable format masks enable visual control of all sound tracks. When the track position is opened, the film perforation holes can be used for image steadiness tests. Image/sound synchronization with DAT recorders, magnetic film players or hard disc recorders is possible by connecting an Audio Synch Unit (ASU, Bi-phase signal) to the LOCPRO 35 or via time code (LTC) interface.





Convenient film projection 'on-location' with simple handling was the concept that made the original LOCPRO 35 successful and popular. But 'location' can mean a lot of things, as not only film crews know. Pretty soon the LOCPRO was found in very different working environments, ranging from a fast screening and checking in the lab to post production houses, where it serves as a reference film projector for color grading. These new applications introduced new parameters and made new features necessary, and as a result the LOCPRO 35 has been optimised. Two new models are now available: The LOCPRO 35 Xenon with its high color fidelity is ideal for the post production, while the LOCPRO 35 ADVANCED is optimised for applications requiring high light intensity and efficiency.

## THE LOCPRO 35 ADVANCED

Most of these innovations have also been incorporated into the LOCPRO 35 ADVANCED – which stands for light optimised. With its 400 W-HTI-lamp, this model offers a light efficiency of about 70 Lumen/W, ideal for viewing rushes right on location and for all those applications where high light intensity for a large screen size is essential. Due to the new microoptics and optimised filters, important improvements had been achieved:

- At a screen width of 2.3 m, the luminance is 53 cd/m<sup>2</sup> (16 foot lambert) and completely fulfils the SMPTE standard for this screen size.
- The light intensity in the screen corners is better than 75%, in the most cases about 78% of the center luminance. Color shading effects are not visible.
- The correlated color temperature is in the range of 5200K to 5600K, homogenously from corners to the screen center.
- In the spectral range of yellow-red and skin-tone above 580 nm (s. Fig.2) the light amount is improved and therefore the color fidelity is better and more similar to daylight conditions. The LOCPRO 35 ADVANCED can therefore also be used for low budget color grading.

## LOCPRO 35 XENON

In accordance to SMPTE 196M-1995 and the requirements of color grading, the LOCPRO 35 Xenon offers the following features:

- A very homogeneous illuminated field and color spectrum from the screen corners to the center is accomplished. The light-intensity in the corners of the field is more than 80% of the center illumination, in the most cases it even surpasses 85%. Color shading effects are not visible. This is the core feature for a successful color grading.
- The absolute luminance of the LOCPRO's projection has to match the screen in the cinema (white point without film should be 55 cd/m<sup>2</sup> ± 7 cd/m<sup>2</sup> according to SMPTE 196M-1995) as well as the monitor luminance of 80 cd/m<sup>2</sup>.
- For a screen width up to 2.1 m, a luminance of 48 cd/m<sup>2</sup> can be reached, lying within the tolerance range of SMPTE 196M-1995. At 1.6 m screen width, a luminance of 80 cd/m<sup>2</sup> is available that can be dimmed to 60% with the built-in iris aperture to match the cinema screen luminance without changing the color temperature.
- Aside from the luminance, chromaticity and color temperature are very important. The white point of the LOCPRO 35 Xenon completely fulfils the SMPTE standard ( $x=0.332 \pm 0.002$  and  $y=0.347 \pm 0.004$ ). Only under these conditions a film master copy can be made with the validity for worldwide mass copying.
- The correlated color temperature of the LOCPRO 35 Xenon lies between 5300 K and 5700 K. This value range is also valid after a lamp change.
- Extremely important is also the reliable handling of the film stock. Not only sequences are looked at – for complex corrections the colorists want to see individual frames (still pictures) in detail, sometimes for several minutes. Effective UV- and IR-protecting cut-off-filters are used for best protection.



## SPECIFICATIONS

Projector type:	LOCPRO 35	LOCPRO 35 Lab 2200
Film format:	35 mm positive – negative	
Film gate:	max 18.6 x 24 mm - can be selected via film format masks	
Capacity of film platters:	300 m / 1000 ft	670 m / 2200 ft
Projection speed (fps):	50 Hz operation	50/25/12.5/6.25/3.12/1.56 forward and reverse
	60 Hz operation	60/30/15/7.5/3.75/1.87 forward and reverse
	film mode	48/24/12/6/3/1.5 forward and reverse
Single frame film transport:	forward and reverse	
High-speed shuttle:	200 fps	
Automatic stopping device:	film drive stops automatically approx. 2 m before the end of the film	
Automatic recognition of winding direction:	no change-over necessary for clockwise or counterclockwise winding	
Digital display:	frame counter, 5 digits	
	projection speed	
	set-up mode	
Frame bar adjustment:	during still projection	
Remote control:	infrared	
Lamp projection:	400 W, 24 V, HTI lamp, Advanced Version; 300 W, Xenon lamp, Xenon Version	
Lens:	F2/50 mm (Standard)	
	F2/75 mm anamorphic 2x MC	
Focusing:	manual	
Computer interface:	RS232, control and monitoring of all operational and video functions	
Temperature range:	+10°C - +40°C	
Overall dimensions:	740 mm (w) x 700 mm (d) x 510 mm (h) (Standard)	
	1360 mm (w) x 700 mm (d) x 550 mm (h) (with 670 m / 2200 ft)	
Weight:	approx. 56 kg / 123,5 lbs	62 kg with 670 m / 2200 ft
Power supply:	230V/ 50 Hz - 115V / 60 Hz	

### 1/3" CCD-Color Imager, High Resolution

Signal system:	PAL	NTSC
Picture elements:	752 (H) x 582 (V)	768 (H) x 494 (V)
Sensing area:	6.00 mm x 4.96 mm	6.00 mm x 4.96 mm
Sync system:	internal	internal
Scanning system:	2:1 interlaced	2:1 interlaced
S/N ratio:	46 dB	48 dB
H/V resolution:	460 (TV) line	470 (TV) line
Video out:	FBAS or Y/C	VBS or Y/C
Frame line inserter:	free adjustable format marking	

When using the CCD-camera, both shutter and film transport are automatically synchronized through the video signal of the camera. With respect to NTSC standards, this automatically results in the following image speeds: 59.94 fps / 29.97 fps or 47.952 fps / 23.976 fps

Technical data are subject to change without notice.